

Shanghai Liangxin Electrical Co., Ltd.

NDW2GZ-2500 Disconnecting Switch

Product Specification

(IPD-ENG-DEV-T20 A1 2016-09-23)

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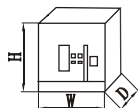
Revision History					
Version	Revision Reason/Content	Implementation Date	Prepared by	Reviewed by	Approved by
0	New document added, content revised, including the J8 wiring method.	20201124	Zhou Yongqian	Shi Yuan	Wang Qinshan
1	Revised content: The electrical clearance has been changed from 15 to 25, and the electrical control power consumption table has been updated.	20220817	Xu Jiewei	Wang Wanlu	Wang Qinshan
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Chapter 1 Product Overview

Table 1

Disconnecting switch model			NDW2GZ-2500	
Rated current Ie (A) (+40°C)			800, 1000, 1250, 1600, 2000, 2500	
Rated working voltage Ue			DC1500V (4P)	
Rated insulation voltage Ui			1500V	
Rated impulse withstand voltage Uimp			12kV	
Number of poles			4P in series	
Closing time			≤70ms	
Full break time			≤40ms	
Rated short circuit making capacity Icm (peak value) kA		DC1500V	40	
Rated short-time withstand current Icw (effective value) kA		DC1500V	Conventional type	Enhanced type
			40/1s	150/200ms
Utilization category			DC-22A, DC-23A, DC-PV2	
Operating performance (times)	Operation frequency of electrical life (20 times/h)	DC1500V	1000	
	Operation frequency of mechanical life (60 times/h)	Maintenance-free	10000	
		With maintenance	15000	
Installation type			Fixed type	
Wiring method of the main circuit			Horizontal wiring, vertical wiring	
Dimensions: W×D×H (mm) 		Fixed type 4P	463×301.5×394	
Weight (kg)		Fixed type 4P	72.7 (800A～1250A)	73.5 (1600A～2500A)

Chapter 2 Field of Application

2.1 Working environment

Ambient temperature

Applicable ambient temperature is $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$, the average within 24 h shall not be more than $+35^{\circ}\text{C}$.

If the ambient temperature is higher than $+50^{\circ}\text{C}$, the user needs to reduce the capacity as shown in Table 3.

Table 2

Environmental requirements	Description of the specific parameters
Operating ambient temperature	The operating ambient temperature is $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$; the average within 24 h shall not be more than $+35^{\circ}\text{C}$. If the ambient temperature is higher than $+50^{\circ}\text{C}$, the user needs to reduce the capacity. (For details, see Table 3)
Altitude	The altitude of the installation site doesn't exceed 2,000m. For use with the altitude above 2,000m, it is necessary to correct the working performance, including power frequency withstand voltage, rated current and short-circuit breaking capacity. (For details, see Table 4)
Pollution degree	Pollution level: Level 3
Wet heat resistance	The relative air humidity at a maximum temperature of $+40^{\circ}\text{C}$ should not exceed 50%. A higher humidity is allowed at a lower temperature, but special measures should be taken to address occasional condensing due to temperature fluctuation.
Storage conditions	The air temperature is: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Storage period and conditions	The relative air humidity at a maximum temperature of $+40^{\circ}\text{C}$ should not exceed 55%, and the product can be stored for 1 year without unpacking. The product can be stored for 3 months under the condition of packaging. For continuous use, the surface shall be subjected to dust and moisture removal, and measure the loop resistance less than $35\mu\Omega$.
Installation condition	With the vertical gradient no more than 5° , the disconnecting switch shall be installed under the environment condition without explosion danger, conductive dust or the possibility of corroding metal and damaging the insulation.

Table 3

Ambient temperature	$+40^{\circ}\text{C}$	$+45^{\circ}\text{C}$	$+50^{\circ}\text{C}$	$+60^{\circ}\text{C}$	$+65^{\circ}\text{C}$	$+70^{\circ}\text{C}$
Rated current ($I_e=2500\text{A}$ vertical short connection)	$1.0I_e$	$1.0I_e$	$1.0I_e$	$1.0I_e$	$0.94I_e$	$0.9I_e$
Rated current ($I_e=2500\text{A}$ horizontal short connection)	$1.0I_e$	$1.0I_e$	$1.0I_e$	$0.9I_e$	$0.88I_e$	$0.84I_e$

Note: 1. The horizontal short-connected load side is connected to the 2m row for simulating the actual installation, while the vertical short-connected load side is for direct short connection.

2. No derating is required for other rated currents.

Altitude

Altitude of the installation site shall not exceed 2,000 m.

If the altitude of the installation site is between 2,000m to 5000m, it can be specially customized. For the working performance, refer to the correction value in the following table (Table 4).

Table 4

Altitude	2000m	3000m	4000m	4500m	5000m
Power frequency withstand voltage	3500V	3500V	3000V	2500V	2200V
Rated current	1.0Ie	0.93Ie	0.88Ie	0.85Ie	0.82Ie
Short circuit breaking capacity correction coefficient	1.0	0.83	0.71	0.65	0.58

2.2 Anti-corrosion level

Salt spray level: Level 2

2.3 Pollution level

Pollution level: Level 3

The disconnecting switch can be operated in the industrial environment specified in IEC 60664-1. However, we still recommended that it shall be installed in a switchgear with suitable temperature and no excessive dust pollution.

2.4 Shockproof requirement

The disconnecting switch can ensure resistance to mechanical shock, and has passed the GB/T 4798.3 standard test

- Amplitude: $\pm 1.5\text{mm}$ (2~9Hz)
- Constant acceleration: 5 m/s^2 (9~200 Hz)

Super strong shock may result in damage to the parts, and impact the reliable action of the disconnecting switch.

2.5 Electromagnetic interference

The disconnecting switch can resist the following electromagnetic interference

- Overvoltage caused by electromagnetic interference
- Overvoltage due to aging of the distribution system or environmental interference
- Radio wave
- Electrostatic discharge

The disconnecting switch has passed the electromagnetic compatibility (EMC) test stipulated by following standards

- GB/T 14048.3-2017

The above tests can ensure that the disconnecting switch won't wrongly occur tripping.

2.6 Installation category

The installation category of the disconnecting switch's main circuit and power transformer primary coil is IV; the rest auxiliary circuit and control circuit installation category is III.

2.7 Protection level

IP30 and IP40 (installed in a cubicle and equipped with protective doorframe)

2.8 Utilization category

DC-22A, DC-23A, DC-PV2

2.9 Specification reference of the wiring copper bar for disconnecting switch's main circuit

Table 5

Rated current of shell frame	Rated current Ie (A) +40°C	Copper bar specification	
		Dimensions	Number
2500	800	60mm×5mm	2
	1000	60mm×5mm	2
	1250	60mm×5mm	3
	1600	60mm×10mm	2
	2000	60mm×10mm	3
	2500	60mm×10mm	4

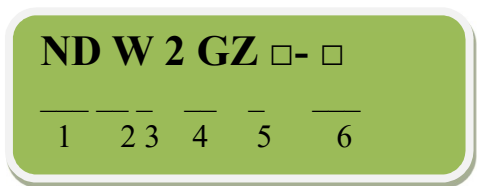
Notes: 1. The table indicates the copper bar specifications adopted when the disconnecting switch is under the ambient temperature of +40°C and the open wide installation under the heating condition meets the stipulation in GB/T 14048.3. If the temperature is higher than +50°C, the quantity of copper bar should be increased, or the derated use is required as shown in Table 3.

2. The above data is calculated according to the test and theory, and for reference only.

3. The maximum permissible temperature of the copper bar is no more than +120°C.

4. **The electrical clearance of copper bar is $\geq 25\text{mm}$** with the altitude more than 5,000m and relative humidity more than 90%; the electrical clearance shall be adjusted according to the relevant standards.

2.10 Specification and model description

		
SN	SN name	
1	Enterprise code	ND- Nader 良信电器
2	Product code	W - Universal
3	Design code	2
4	Derived code	G - Disconnecting switch Z - DC
5	Derived code	Not-marked - Conventional
6	Shell frame level	2500

Note: For details of the product ordering models and specifications, see the ordering and type selection specification.

Chapter 3 Accessories

3.1 Remote live operation

3.1.1 Closed electromagnet

Closed electromagnet is mainly composed of coil, iron core component and electronic parts. In the condition of mechanism energy storage, as long as the closed electromagnet is energized, the circuit breaker can be closed.

◆ Action features of the closed electromagnet:

- 1) When the power supply voltage of the closed electromagnet maintains at 85%~110% of the rated control supply voltage U_s , operation of the closed electromagnet can make reliable closing of the circuit breaker.
- 2) Closed electromagnet is the short-time duty-type.
- 3) There is the control circuit inside to ensure the long-time energizing, which shall be >200ms. The user cannot connect it with the auxiliary switch point of the circuit breaker in series.
- 4) $1.4U_s$ allows the energizing for 3s.
- 5) In case of no overvoltage protection and voltage being beyond $1.4U_s$, it will burn after long-time energizing.

◆ Technical Parameters of Closed Electromagnet

Power Consumption Table of Closed Electromagnet

Rated insulation voltage (U_i)	Rated control supply voltage (U_s)	Instantaneous power
400V	AC220V/AC230V 50/60Hz	500VA
	DC220V	500W
	DC24V	135W



Figure 1

3.1.2 Shunt release

Shunt release is mainly composed of coil, iron core component and electronic parts, and can disconnect the circuit breaker by remote operation.

◆ Action features of the shunt release

- 1) When the power supply voltage of the shunt release maintains at 70%~110% of the rated control supply voltage, operation of the shunt release can make the circuit breaker disconnect.
- 2) Shunt release is short-time duty-type.
- 3) There is the control circuit inside to ensure the long-time energizing, which shall be >200ms. Do not connect to the auxiliary switch contact



Figure 2

of the circuit breaker in series.

4) 1.4Us allows the energizing for 3s.

5) In case of no overvoltage protection and voltage being beyond 1.4Us, it will burn after long-time energizing.

◆ Technical Parameters of Shunt Release

Power Consumption Table of Shunt Release

Rated insulation voltage (Ui)	Rated control supply voltage (Us)	Instantaneous power
400V	AC220V/AC230V 50/60Hz	500VA
	DC220V	500W
	DC24V	135W

3.1.3 Retention-type shunt release

Retention shunt release is mainly composed of coil, iron core component and electronic parts, and can disconnect the circuit breaker by remote operation.

◆ Action features of the retention shunt release

1) When the power supply voltage of the retention shunt release maintains at 70%~110% of the rated control supply voltage, operation of the shunt release can make the circuit breaker disconnect.

2) When the applied voltage is 85%~110% of the rated working voltage of the retention shunt release, the shunt release ensures that the circuit breaker will be reliable and not be closed.

3) The retention-type shunt release is of long-term duty type, which can send closing signal with an interval of more than 500ms after power failure.

4) Each power-on trigger time $t > 200\text{ms}$.

5) 1.3Us withstand time is 9.5s without damage, 1.4Us withstand time is 0.5s without damage.

Rated insulation voltage (Ui)	Rated control supply voltage (Us)	Instantaneous power	Operating power
400V	AC220V/AC230V 50/60Hz	< 600VA	< 5VA
	DC220V	< 600W	< 5W

3.1.4 Motor operating mechanism

The circuit breaker can only be closed after the motor operating mechanism make the circuit breaker to store energy in advance.

◆ Operation features

1) If the rated supply voltage of the motor operating mechanism is between 85%~110%, energy storage of the circuit breaker can be made in place

- 2) The motor will close the power supply automatically and stop operation after it stores energy in place.
- 3) The motor operating mechanism can realize the automatic pre-energy storing.
- 4) Each power-on trigger time: $t > 7s$, long-term energization is allowed for the secondary circuit input terminal.
- 5) In case of no overvoltage protection and voltage being beyond 1.4Us, it will burn after long-time energization. It is allowed to energize for 1s at 1.4Us during operation.

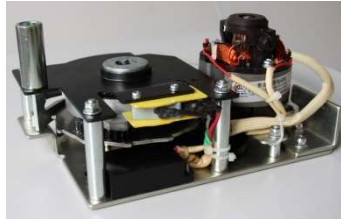


Figure 3

Operation features: If the rated supply voltage of the motor operating mechanism is between 85%~110%, energy storage of the disconnecting switch can be made in place. It supports the high-voltage 1.4 times rated /1s (AC220V). Operating power is shown in Table 8.

Table 8

Rated insulation voltage (Ui)	Energy storage time	Rated control supply voltage (Us)	Operating consumption	Operating current	Maximum peak starting current
400V	3s~5s	AC380V/AC400V	190VA	0.5A	2.7A
		AC220V/AC230V 50/60Hz	170VA	0.8A	4.6 A
		DC220V	220W	1.0A	4.5A

3.2 Indication contact

● Auxiliary switch

The conventional thermal current of the auxiliary switch is 6A.

Auxiliary contact form: Four normally opened and four normally closed, five normally opened and five normally closed, six normally opened and six normally closed.

◆ Technical Parameters of Auxiliary Switches



Figure 4

Table 9

Auxiliary contact form		Four normally opened and four normally closed, five normally opened and five normally closed, six normally opened and six normally closed.
Minimum Load (DC)		2mA/15V
Breaking capacity	DC-12	5A/DC250V
	AC-12	10A/AC250V
	DC-13	1.2A/DC220V
	AC-15	3A/AC400V

3.3 Phase partition

It is installed in the groove between all the phase bus bars, used to increase the insulation strength between phase to phase of the main circuit and improve the insulation performance. It is an optional accessory. See Figure 5 for the installation position.

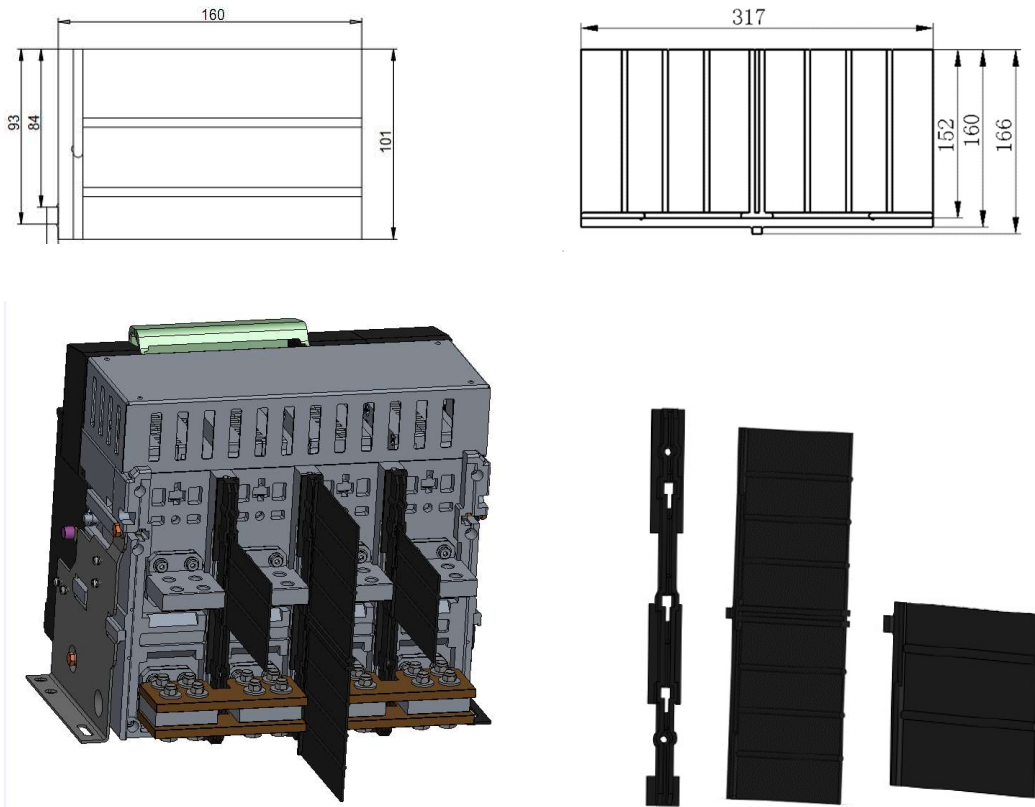
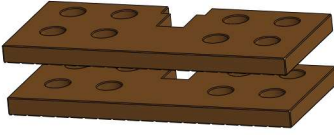
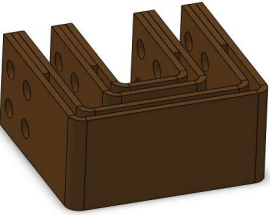


Figure 5

3.4 Series busbar

The series busbar is an optional accessory. The configuration of the series busbar is shown in Table 10 below.

Table 10

Rated current	Series busbar
800A, 1000A, 1250A, 1600A, 2000A, 2100A	
2500A	

Note: For the horizontal series busbar, our company does not supply it separately. The dimensions are shown in Figure 6 below. The vertical series busbar is available for separate supply.

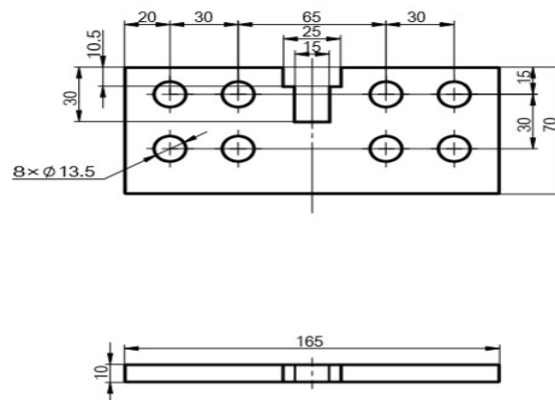
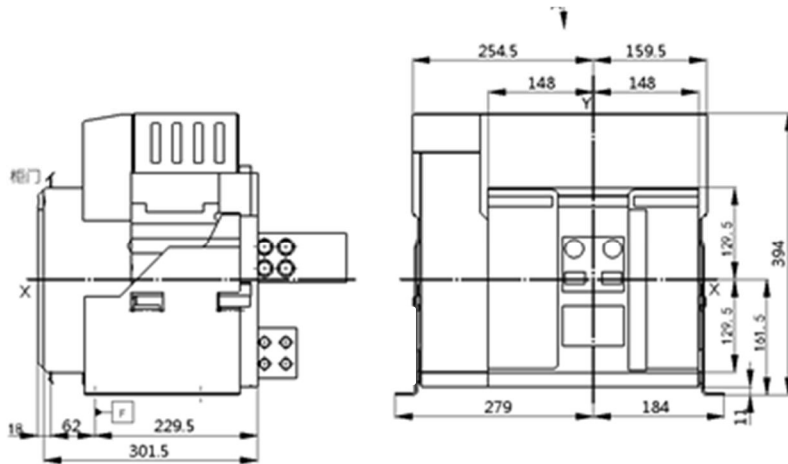


Figure 6 Dimensions of Horizontal Series Busbar

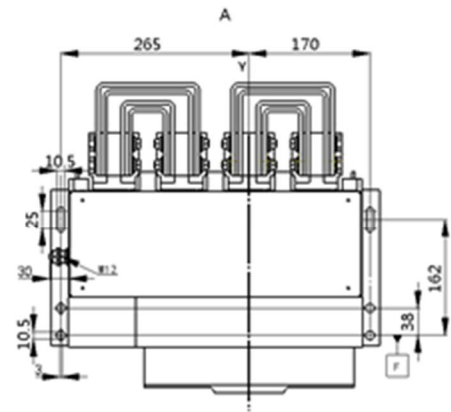
Chapter 4 Outline and Installation Dimensions

NDW2GZ-2500 Fixed type

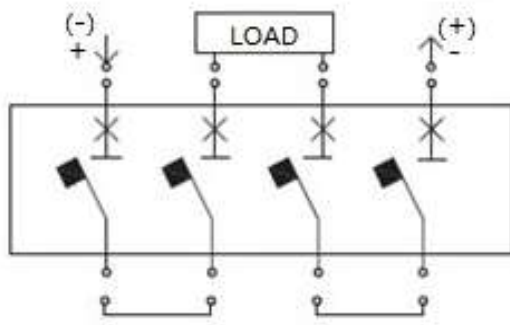
Dimensions



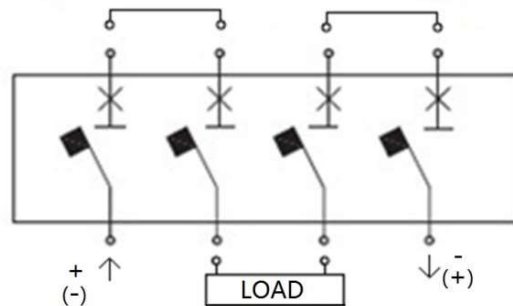
Fixed Details



Wiring mode of 4P in series



(a) Upper wiring of 4P in series

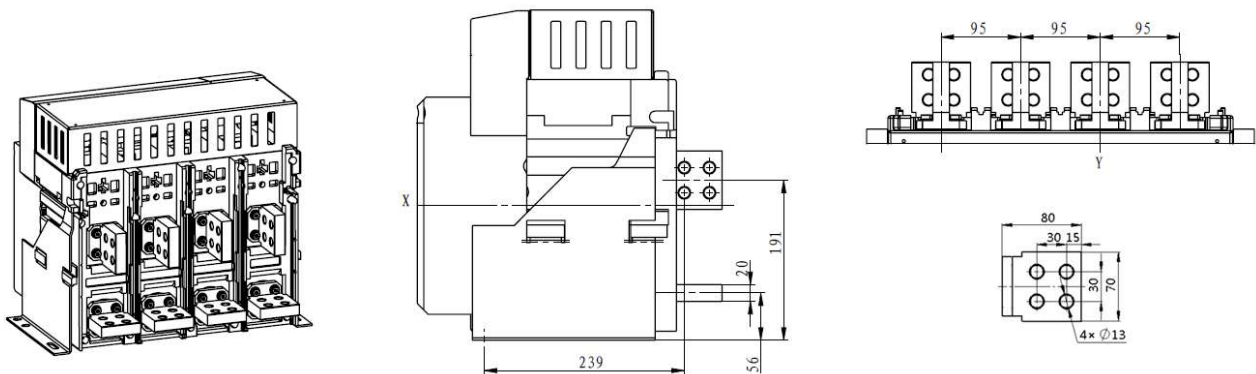


(b) Lower wiring of 4P in series

J8: Mixed extended wiring (upper vertical, lower horizontal)

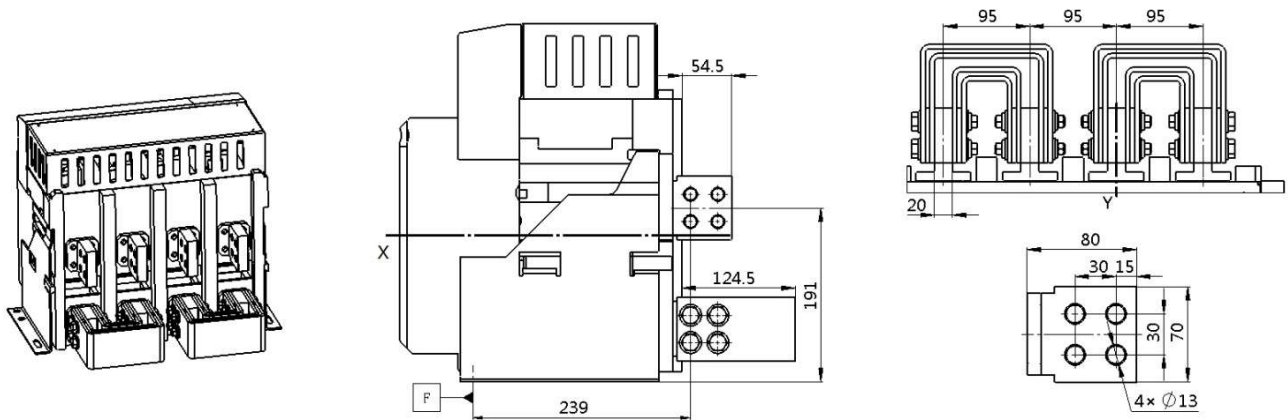
Ie=2100A~2500A

Details



Vertical upper wiring of 4P in series
Ie=2100A~2500A

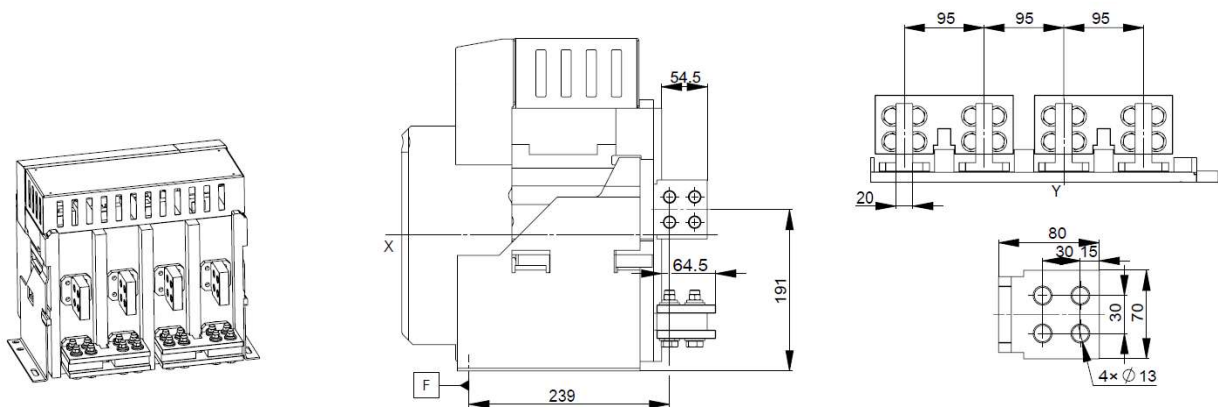
Details



Vertical upper wiring of 4P in series

Ie=800A~2100A

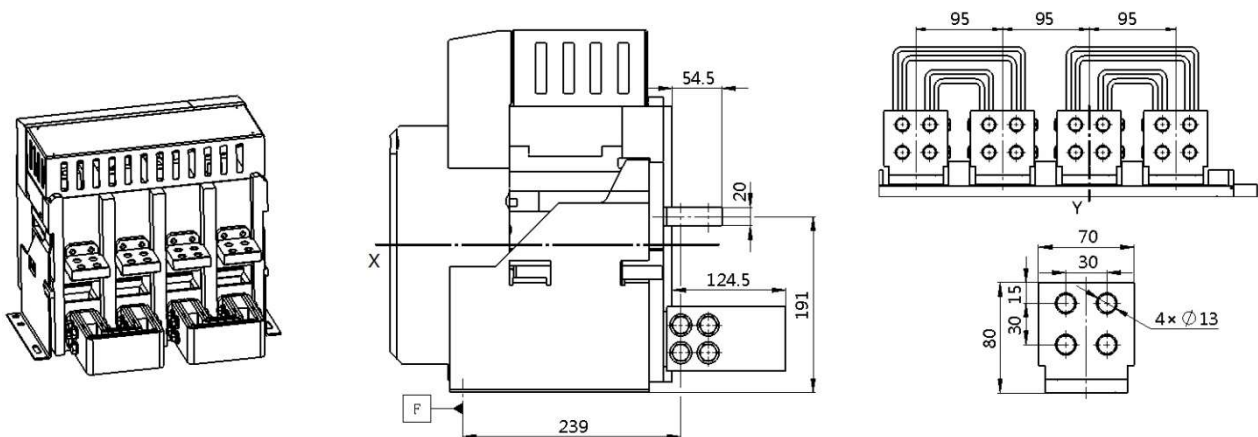
Details



Horizontal upper wiring of 4P in series

Ie=2100A~2500A

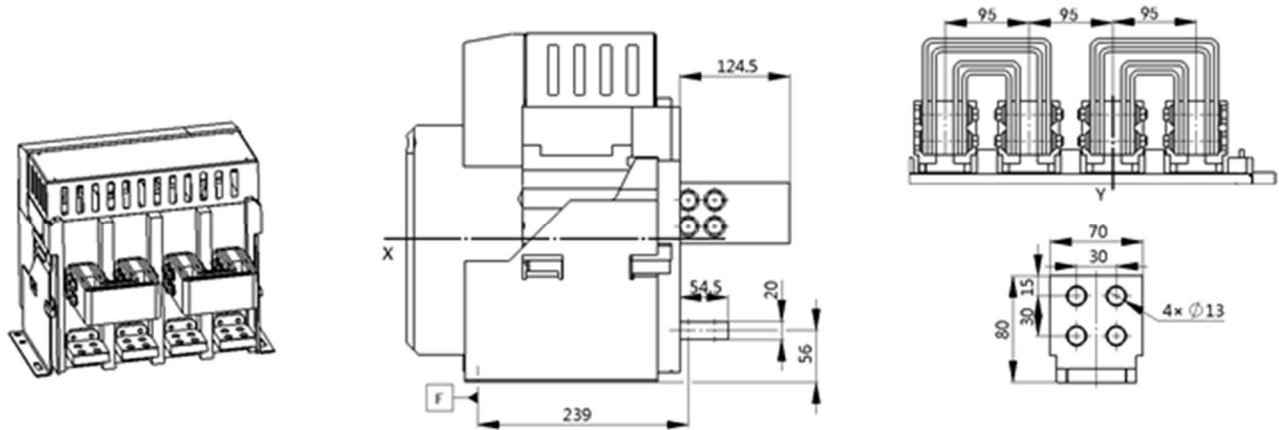
Details



Horizontal lower wiring of 4P in series

Ie=2100A~2500A

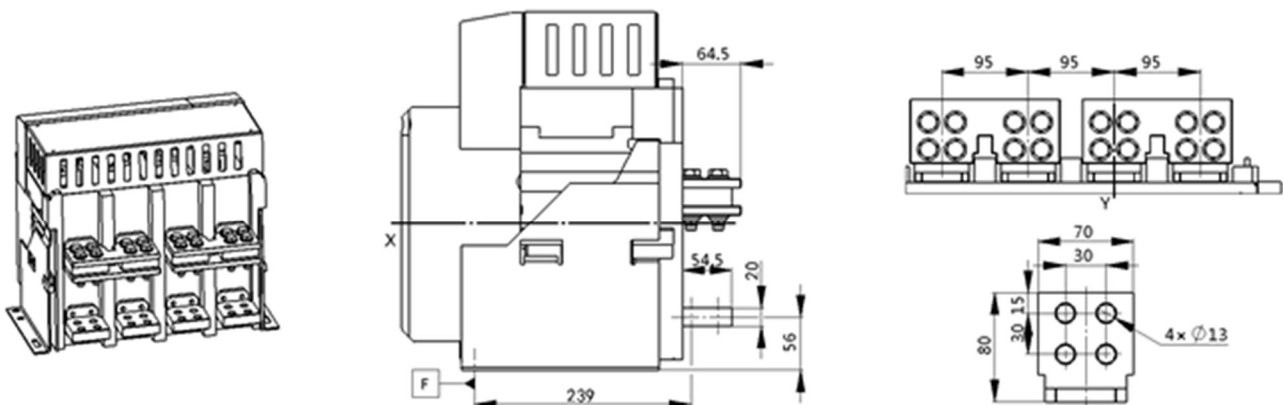
Details



Horizontal lower wiring of 4P in series

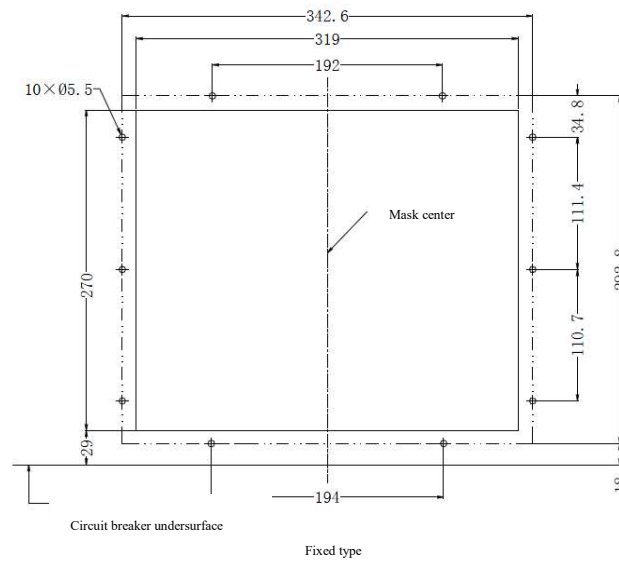
Ie=800A~2100A

Details



- Notes:
1. For the circuit breaker, X and Y are the symmetric axes of the front cover;
 2. The default tolerance of all installation dimensions of the circuit breaker is $\pm 3\text{mm}$;
 3. The circuit breaker and mounting surface dimensions need to be measured against a flat plane. (When measurements are taken directly against the wooden bottom bracket of the circuit breaker package, the results will be biased due to the deformation of the wooden bottom bracket)

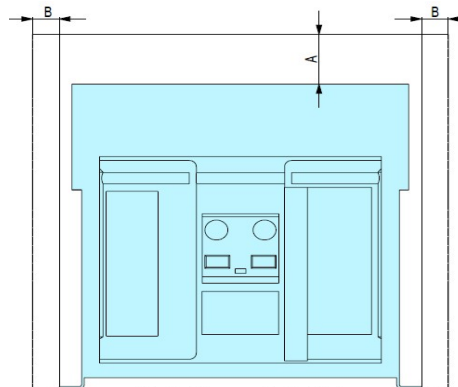
Cabinet door opening dimensions of NDW2GZ-2500



Chapter 5 Safe Distance and Flashover Distance

The disconnecting switch is installed in the cabinet, the safe distance between the disconnecting switch and the cabinet

When users install the disconnecting switch into the cabinet, the safe distance between the disconnecting switch and the cabinet is as shown in the figure, and the installation dimensions are shown in the table.



Fixed-type Disconnecting Switch

Unit: mm

Installation type of the disconnecting switch	To the insulator		To the metallic body grounded safely		To the live part	
	A	B	A	B	A	B
Fixed type	0	0	0	0	60	60

Notes: 1. 150 mm space needed for removing the arc-extinguishing chamber should be considered for the safe spacing of the fixed type disconnecting switch;

2. If dust cover is added, height space of 70 mm for installation and rotating of the dust cover should be considered;

3. The flashover distance is consistent with the safe distance.

Chapter 6 Installation Precautions

To ensure the safety of you and the electric equipment, before put the disconnecting switch into operation, users must:

- a. Carefully read the Operation Manual before installation and use of the disconnecting switch.
- b. Check whether the specification of the disconnecting switch is in line with the requirements before installation.
- c. Install the disconnecting switch under the environment condition without explosion danger, conductive dust or the possibility of corroding metal and damaging the insulation.
- d. Before installing the disconnecting switch, use a 1000V megohmmeter to measure the insulation resistance of the switch. Under the surrounding medium temperature of $+20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ and relative humidity of 50%-70%, the insulation resistance should not be less than 20 megaohms. If it is lower, the switch should be dried until the insulation resistance meets the required standards before it can be used.
- e. Prevent foreign matters from falling into the disconnecting switch when installing the disconnecting switch.
- f. Ensure the disconnecting switch is flat without additional mechanical stress when installing the conductive busbar.
- g. Conduct reliable grounding protection when installing the disconnecting switch. The grounding place of the disconnecting switch has an obvious grounding symbol.
- h. When installing the disconnecting switch, wire the control circuit according to the wiring diagram and check whether the operating voltage of related components such as undervoltage release, auxiliary release, closing electromagnet, and motor matches the actual voltage. Then, energize the secondary circuit. If it is a drawer-type disconnecting switch, the switch body should be moved to the test position. At this point, the undervoltage release will be engaged, allowing the disconnecting switch to close.
- i. Pressing (or powering on) the closing button after the energy storage of the motor, the disconnecting switch will close.
- j. Pressing (or powering on) the opening button, the disconnecting switch will open.
- k. For manual storage of energy, pull the handle on the front panel up and down, a "click" sound can be heard after seven times, and the panel shows "storage of energy", the storage of energy ends. At this point, if there's undervoltage tripping, power on it (no need if without undervoltage tripping), then carry out closing operation.

Chapter 7 Electrical Wiring Diagram

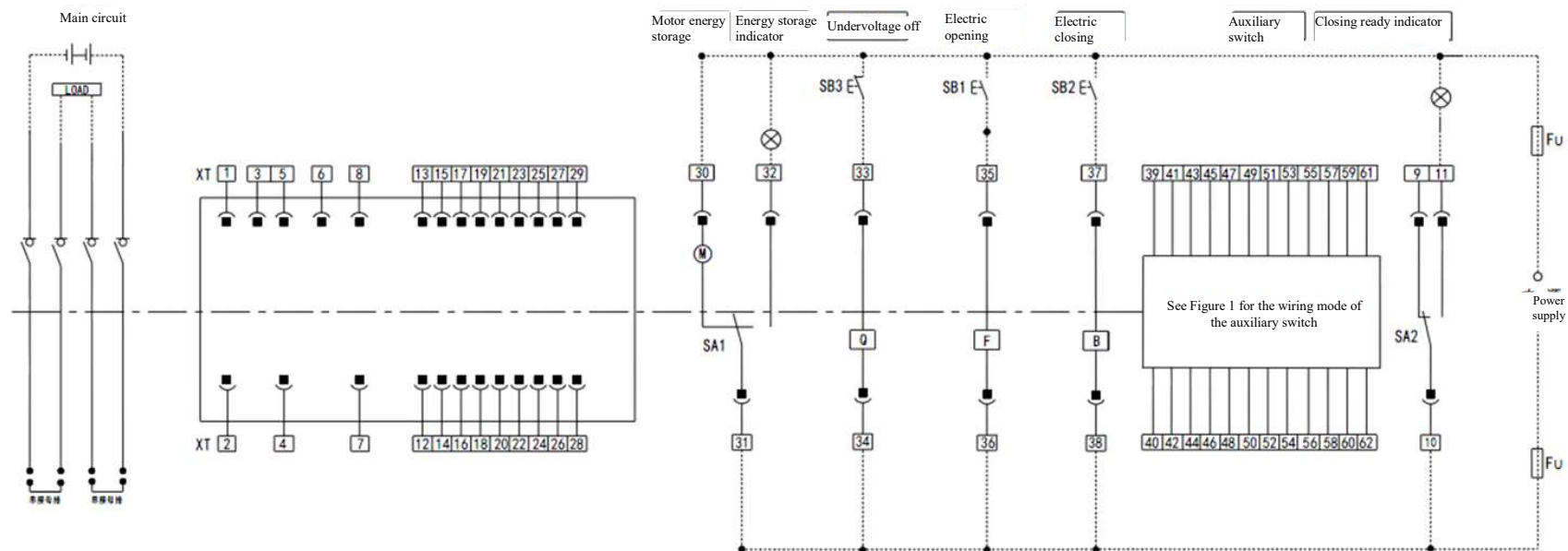
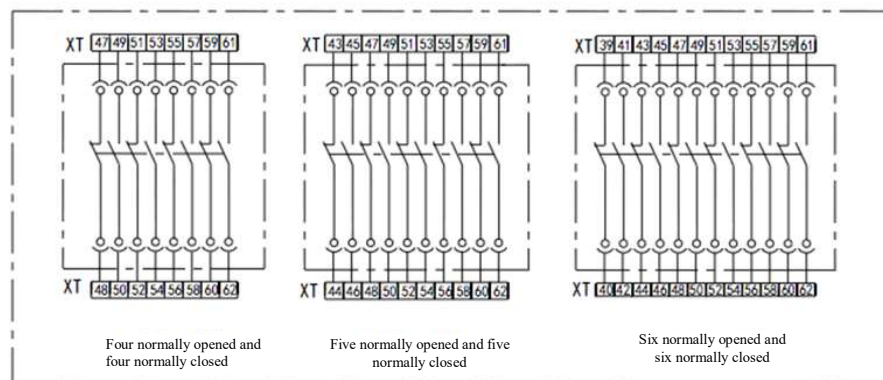


Figure 1 - NDW2GZ-2500 Auxiliary Switch Wiring Mode



9, 10, 11 - Closing ready electric indication
30, 31, 32 - Motor energy storage and energy storage indication
33, 34 - Undervoltage release
35, 36 - Shunt release
37, 38 - Closed electromagnet
39~62 - Auxiliary switch connection terminals
F - Shunt tripper
B - Closed electromagnet
Q - Undervoltage (instantaneous or delayed) release

SB1 - Shunt button (to be prepared by users)
SB2 - Close button (to be prepared by users)
SB3 - Undervoltage disconnection button (to be prepared by users)
SA1 - Motor travel switch
SA2 - Closing ready travel switch
XT - Secondary terminal
FU -- Fuse (to be prepared by users)
M - Energy storage motor

Notes:

1. The current state of the disconnecting switch is de-energized, and disconnected, with no energy stored
2. The dashed part shall be wired by users
3. When the power supply of Q, F, B, M is not the same, they shall be powered on separately

Chapter 8 Ordering Type Selection Specification

8.1 Model explanation and encoding rules

ND W 2 GZ □ - □ □/□/□ □ □/□ □/□/□/□/□

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

SN	Name	Specification, type code	Description
1	Enterprise code	ND-“ Nader ” brand low-voltage electrical appliance	
2	Product code	W - Universal	
3	Design code	2	
4	Derived code	G - Disconnecting switch Z - DC	
5	Derived code	Not-marked - Conventional	
6	Shell frame level	25-2500	
7	Installation mode	Not-marked - Fixed type	
8	Rated current	08-800A, 10-1000A, 12-1250A, 16-1600A, 20-2000A, 25-2500A	
9	Number of poles	4-4P Series	
10	Electric energy storage mechanism	D2-AC220V/AC230V, D3-DC220V, DE-AC220V/AC230V/DC220V	
11	Shunt release	F2 - AC220V/AC230V, F3 - DC220V, F5 - DC24V, F6 - AC220V/DC220V (Retention type)	
12	Closing electromagnet	B2-AC220V/AC230V, B3-DC220V, B5-DC24V , BE-AC220V/AC230V/DC220V	
13	Undervoltage/loss of voltage release	Q1-AC380V/AC400V, Q2-AC220V/AC230V, Q3-DC220V, Q4-DC110V S1-AC380V/AC400V, S2-AC220V/AC230V	This shall be omitted if without this accessory.
14	Undervoltage/loss of voltage release delay time	Conventional undervoltage: 0-Instantaneous, 1-1s delay, 3-3s delay, 5-5s delay Voltage loss: 0-Instantaneous, 1-1s delay, 3-3s delay, 5-5s delay	
15	Auxiliary contact	Not-marked - Four normally opened and four normally closed, A55 - Five normally opened and five normally closed, A66 - Six normally opened and six normally closed	
16	Internal accessories	SF11 - key lock device (one lock and one key) BX - Closing ready signal output unit	This shall be omitted if without the accessory
17	External accessories	M - Doorframe G - Phase partition (standard configuration) F - Dust cover S - Button lock	
18	Product usage type	Not marked - Conventional, GD - Plateau, low temperature type	
19	Wiring mode	Not marked - Customer installation, J8 - mixed extended wiring (vertical top, horizontal bottom), JCS - Vertical top wiring, JSS - Horizontal top wiring, JCX - Vertical bottom wiring, JSX - Horizontal bottom wiring	When the customer installs, our company does not provide the series busbar.
20	Special notes	Customer-specific requirements, e.g. HD-Enhanced 150kA, 200ms	

8.2 Ordering specification

(Please fill in numbers in _____, and check ☒ in ☐. For details, please refer to the instruction manual)

User unit			Number of units ordered:	Date of ordering:
Product model		NDW2GZ-2500		
Rated current (A)		☐ 800 ☐ 1000 ☐ 1250 ☐ 1600 ☐ 2000 ☐ 2500		
Number of poles		4-4P Series		
Installation mode		Not-marked - Fixed type		
Required accessories	Shunt release	☐ F2-AC220V/AC230V ☐ F3-DC220V ☒ F5-DC24V ☐ F6-AC220V/DC220V (Retention type)		
	Auxiliary contact	☐ Not-marked - four normally opened and four normally closed ☐ A55 - five normally opened and five normally closed ☐ A66 - six normally opened and six normally closed		
	Motor-operated Mechanism	☐ D2-AC220V/AC230V ☐ D3-DC220V ☐ DE-AC220V/AC230V/DC220V		
	Closing electromagnet	☐ B2-AC220V/AC230V ☐ B3-DC220V ☒ B5-DC24V ☐ BE-AC220V/AC230V/DC220V		
Optional accessories	Undervoltage release	Voltage Specification	☐ Q1(AC380V/AC400V) ☐ Q2(AC220V/AC230V) ☐ Q3(DC220V) ☐ Q4(DC110V)	
		Delay time	☐ 0-Instantaneous (0s) Delay: ☐ 1 (1s delay) ☐ 3 (3s delay) ☐ 5 (5s delay) Other times, custom options are available upon request. Please specify in the special requirements.	
	No-voltage release	Voltage Specification	☐ S1(AC380V/AC400V) ☐ S2(AC220V/AC230V)	
		Delay time	☐ 0-Instantaneous (0s) Delay: ☐ 1 (1s delay) ☐ 3 (3s delay) ☐ 5 (5s delay) Other times, custom options are available upon request. Please specify in the special requirements.	
	Signal output Function		☐ BX - Closing ready	
	Disconnected position Key lock		☐ SF11 - One lock with one key	
	Door frame		☐ M Doorframe	
	Dust cover		☐ F Dust cover	
	Interphase partition		☐ G - Phase partition (standard configuration)	
	Button lock		☐ S Button lock	
Wiring mode		☐ JCS - Vertical upper wiring, ☐ JSS - Horizontal upper wiring, ☐ JCX - Vertical lower wiring, ☐ JSX - Horizontal lower wiring, ☐ Not-marked - Customer installation ☐ J8-Mixed extended wiring (upper vertical, lower horizontal)		
Special usage occasions		☐ Not marked - Conventional, ☐ GD - Plateau, low temperature		
Special requirements		☐ HD-Enhanced 150kA, 200ms		
		Other requirements:		
Note: If you have special requirements, please indicate in the special requirements column.				